

**PULTRUSION APPARATUS FOR CONTINUOUS FABRICATION OF FIBER-
REINFORCED PLASTIC ARTICLES HAVING A NON-LINEAR SHAPE,
METHODS OF FABRICATING SUCH ARTICLES,
AND COMPOSITIONS USED THEREIN**

Abstract of the Disclosure

A pultrusion apparatus for manufacturing a fiber-reinforced plastic article having a non-linear shape includes a mold configured to receive a partially cured fiber-reinforced plastic article and to form the partially cured fiber-reinforced plastic article into a spirally wound shape. A drive mechanism is coupled to the mold and configured to rotate the mold such that the fiber-reinforced plastic article is taken up on the mold. An energy source is operatively associated with the mold and positioned so that the partially cured fiber-reinforced plastic article is cured in a spirally wound shape as the article is taken up on the longitudinally extending mold. The pultrusion apparatus allows for continuously shaping a non-linear fiber-reinforced plastic article, obviating the need for any of the work to be done by hand, which may be labor intensive, not as highly reproducible, and potentially contaminating.